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ooking Ahead: Blurred Lines of Technology, Body, and Mind

University of Toronto, Faculty of Law
2015-2016

ctors: Benjamin Alarie, ben.alarie@utoronto.ca & Daniel Debow, ddebow@gmail.com

ption: This course surveys the implications of emerging socially and economically rmative technologies, including machine learning, nanomaterials, robotics, genetic ering, etc. The aim is to explore how exponential technological change and innovation will affect law and society in a variety of contexts — including medicine, law, education, finance, transportation, communication, the arts, and government — throughout the world in the coming decades. This course will be open to graduate students in other faculties, including engineering and computer science, and will encourage interdisciplinary discussion. While much of the material will examine at an introductory level many emerging technologies, no formal scientific background is expected of students.

Evaluation: Six comments of 500 words each (60%); a final paper of 3000 words (40%).

Schedule: Mondays, 10:30 am - 12:20 pm

Class One: Exponential Dreams	**Monday, January 4, 2016**
Ray Kurzweil, "The Law of Accelerating Returns" in Christof Teuscher, *ed.*, *Alan Turing: Life and Legacy of a Great Thinker* (Springer-Verlag, 2004).	5-40
Michael Trebilcock, "Framing the Issues: Normative Discourses, Political Imperatives" in *Dealing with Losers: The Political Economy of Policy Transitions* (Oxford University Press, 2014), 9-30.	41-53

Class Two: Exponential Nightmares	**Monday, January 11, 2016**
Frank Easterbrook, "Cyberspace and the Law of the Horse" (1996) *University of Chicago Legal Forum* 207.	54-63
oy, "Why the Future Doesn't Need Us" (2000) 8(4) 8-263.	64-82
Piketty, "Introduction" in *Capital in the 21st* (Harvard University Press, 2014).	83-107

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FACULTY OF LAW
UNIVERSITY OF TORONTO

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LOOKING AHEAD: BLURRED LINES OF TECHNOLOGY, BODY, AND MIND

Professors:
Benjamin Alarie & Daniel Debow

University of Toronto
Faculty of Law
2015-2016

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Looking Ahead: Blurred Lines of Technology, Body, and Mind

University of Toronto, Faculty of Law
2015-2016

Instructors: Benjamin Alarie, ben.alarie@utoronto.ca & Daniel Debow, ddebow@gmail.com

Description: This course surveys the implications of emerging socially and economically transformative technologies, including machine learning, nanomaterials, robotics, genetic engineering, etc. The aim is to explore how exponential technological change and innovation will affect law and society in a variety of contexts — including medicine, law, education, finance, transportation, communication, the arts, and government — throughout the world in the coming decades. This course will be open to graduate students in other faculties, including engineering and computer science, and will encourage interdisciplinary discussion. While much of the material will examine at an introductory level many emerging technologies, no formal scientific background is expected of students.

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Class Two: Exponential Nightmares	**Monday, January 11, 2016**
Frank Easterbrook, "Cyberspace and the Law of the Horse" (1996) *University of Chicago Legal Forum* 207.	54-63
Bill Joy, "Why the Future Doesn't Need Us" (2000) 8(4) *Wired* 238-263.	64-82
Thomas Piketty, "Introduction" in *Capital in the 21st Century* (Harvard University Press, 2014).	83-107

Class Three: Super Intelligence

Monday, January 18, 2016

Nick Bostrom, "Forms of Superintelligence" in *Superintelligence: Paths, Dangers, Strategies* (Oxford University Press, 2014).	108-117
Hutan Ashrafian, "AIonAI: A Humanitarian Law of Artificial Intelligence and Robotics" (2015) 21(1) *Science and Engineering Ethics* 29-40.	118-129

Class Four: Cognitive Computing and the Future of Law

Monday, January 25, 2016

Tony Casey and Anthony Niblett, "The Death of Standards" (draft working paper, November 2015).	130-184
Benjamin Alarie, Anthony Niblett, and Albert Yoon, "Cognitive Computing and the Future of Law" (draft working paper, December 2015).	See Blackboard

Class Five: Biology I—Genomics

Monday, February 1, 2016

Richard Dawkins, "The Replicators" in *The Selfish Gene* (Oxford University Press, 2006).	185-194
Henry Greely, "Ethical Issues in Genomics" (2015) 2(10) *International Encyclopedia of the Social and Behavioral Sciences* 32.	195-204
KurzweilAI, "Deep Genomics Launches, Uniting Deep Learning and Genome Biology" (July 22, 2015).	205-208

Class Six: Biology II—Further Implications

Monday, February 8, 2016

Kevin Warwick, "Cyborg morals, cyborg values, cyborg ethics" (2003) 5 *Ethics and Information Technology* 131.	209-215
The Economist, "Biohacking: Hacking Goes Squishy" (September 3, 2009).	216-219
Stephen Hummel, *et al.*, "The Biohacker: A Threat to National Security" (2014) 7(1) *CTC Sentinel* 8-11.	220-243

Class Seven: Materials and Nanotechnology

Monday, February 22, 2016

Richard Feynman, “Plenty of Room at the Bottom” (December 1959).	224-230
Eric Drexler, “The Coming Era of Nanotechnology” in *The Engines of Creation* (Doubleday, 1986).	231-261

Class Eight: Software is Eating the World

Monday, February 29, 2016

Marc Andreesen, “Why Software is Eating the World” (August 20, 2011) *Wall Street Journal.*	262-267
Avi Goldfarb, “Is Software Eating the World” (draft working paper, December 2015)	See Blackboard

Class Nine: The Future of Energy

Monday, March 7, 2016

Ramez Naam, “Chapter 12: The Multiplier” in *The Infinite Resource: The Power of Ideas on a Finite Planet* (University Press of New England, 2013).	268-280
Tim Urban, “How Tesla Will Change the World” http://www.waitbutwhy.com (June 2, 2015).	281-352

Class Ten: Transportation

Monday, March 14, 2016

Ashlee Vance, “Chapter 10: Revenge of the Electric Car” in *Elon Musk: Tesla, SpaceX, and the Quest for a Fantastic Future* (HarperCollins, 2015).	353-380
Michael Belfiore, “The Rocketeer” *Foreign Policy* (December 2013) 102-103.	381-382

Class Eleven: Quantum Computing	**Monday, March 21, 2016**
J. Dale Prince, "Quantum Computing: An Introduction" (2014) 11(3) *Journal of Electronic Resources in Medical Libraries* 155-158.	383-386
Seiki Akama, "Chapter 6: Future of Quantum Computing" in *Elements of Quantum Computing History, Theories and Engineering Applications* (Springer International, 2015).	387-400

Class Twelve: The Future	**Monday, March 28, 2016**
Steve Mann, *et al.*, "Declaration of Veillance (*Surveillance is Half-Truth*)" *Veillance Foundation* (2015).	401-402
Peter Schwartz, "Chapter 10: Rehearsing the Future" in *Art of the Long View* (Doubleday, 1995).	403-412